



US 20160174020A1

(19) **United States**

(12) **Patent Application Publication**
HUTTUNEN et al.

(10) **Pub. No.: US 2016/0174020 A1**
(43) **Pub. Date: Jun. 16, 2016**

(54) **METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR MANAGEMENT OF CONNECTED DEVICES, SUCH AS IN A WIRELESS DOCKING ENVIRONMENT-INTELLIGENT AND AUTOMATIC CONNECTION ACTIVATION**

Publication Classification

(51) **Int. Cl.**
H04W 4/00 (2006.01)
H04W 8/22 (2006.01)
H04M 1/725 (2006.01)
(52) **U.S. Cl.**
CPC *H04W 4/008* (2013.01); *H04M 1/7253* (2013.01); *H04W 8/22* (2013.01)

(71) Applicant: **Nokia Technologies Oy**, Espoo (FI)
(72) Inventors: **Juhani HUTTUNEN**, Veikkola (FI); **Miraj MOSTAFA**, Tampere (FI); **Ari AARNIO**, Espoo (FI)
(73) Assignee: **Nokia Technologies Oy**, Espoo (FI)
(21) Appl. No.: **14/969,888**
(22) Filed: **Dec. 15, 2015**

(57) **ABSTRACT**
Method, apparatus, and computer program product embodiments enable a wireless docking center device to manage one or more wireless and/or wired peripheral devices on behalf of a wireless dockee device. In an example embodiment, a wireless docking system may automatically provide only those peripherals to user's attention, which are in direct relation to user's activity and are meaningful to the user at each point in time. The set of offered peripherals may depend on the application, for example, video playing or web browsing, running in user's dockee device, such as a smartphone. An example embodiment may automatically take into account known user preferences/habits, location, etc. The selection of peripherals offered may automatically provide the best technical performance, for example, best quality display for a video. An example embodiment also enables the docking solution to allocate optimum peripheral resources on a dynamic usage basis for each user.

Related U.S. Application Data

(63) Continuation of application No. 14/808,678, filed on Jul. 24, 2015, now Pat. No. 9,232,348, Continuation of application No. 13/973,439, filed on Aug. 22, 2013, now Pat. No. 9,131,335.

